Program

International Young Scientists School «Artificial Intelligence & Cybersecurity»

25–28 November 2025, Stavropol, Russia

Participant registration:
https://forms.yandex.ru/u/68fe72d790fa7b7f56cf824c

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Join by meeting code: Conference code: i05mu2@salutejazz.ru • Password: c1tvfu12

All times are Moscow Time (GMT+3).

Please connect 30 minutes before the start to test your system.

25 November 2025

09:00 – Evolution of neural network architectures: from Perceptron to GPT

Marina A. Rudenko, PhD (Eng.), Head, Center for Artificial Intelligence and Big Data Analytics, V.I. Vernadsky Crimean Federal University, Simferopol.

10:30 – Deepfake technologies as a threat to information security

Elena A. Maksimova, DSc (Eng.), Head, Department of Intelligent Systems of Information Security, MIREA — Russian Technological University, Moscow.

12:00 – Principles and methods for end-to-end development of AI systems

Marina A. Rudenko, PhD (Eng.), Head, Center for AI & Big Data Analytics, V.I. Vernadsky Crimean Federal University, Simferopol.

14:00 – Mathematical foundations of modern fully homomorphic encryption

Maxim A. Deryabin, PhD (Eng.), Researcher, Samsung Advanced Institute of Technology (SAIT), Suwon, Republic of Korea.

15:30 – Classification of homomorphic encryption schemes and key operations

Maxim A. Deryabin, PhD (Eng.), Researcher, SAIT, Suwon, Republic of Korea.

17:00 – Security of AI systems

Pavel S. Lozhnikov, DSc (Eng.), Vice-Rector for Research and Innovation, Omsk State Technical University, Omsk.

26 November 2025

09:00 – Applying AI methods to assess speech quality in speech rehabilitation

Evgeny Y. Kostyuchenko, PhD (Eng.), Head, Research & Engineering Center "Intelligent Systems of Trusted Interaction," Tomsk State University of Control Systems and Radioelectronics (TUSUR), Tomsk.

10:30 – AI as a tool for creating and countering deepfakes

Elena A. Maksimova, DSc (Eng.), Head, Department of Intelligent Systems of Information Security, MIREA – Russian Technological University, Moscow.

12:30 – Cyber security challenges in education

Prakasha G. S., Christ University, Bangalore, India.

14:00 – Traditional AI vs Generative AI: A paradigm shift

Namita Mittal, Associate Professor, Department of Computer Science and Engineering, MNIT, Jaipur, India.

16:30 – Introduction to cryptanalysis. Cryptanalysis of symmetric encryption algorithms

Evgeniya A. Ishchukova, PhD (Eng.), Associate Professor, Southern Federal University, Taganrog.

18:00 – The role of AI in interdisciplinary research at the intersection of science and art

Irina A. Ivanova, PhD (Eng.), Associate Professor, Head of the Department "Digital Data Processing Technologies," MIREA – Russian Technological University, Moscow.

27 November 2025

09:00 – Cryptanalysis of asymmetric encryption algorithms

Evgeniya A. Ishchukova, PhD (Eng.), Associate Professor, Southern Federal University, Taganrog.

10:30 – Methodology for classifying information security threats

Anton A. Konev, PhD (Eng.), Deputy Director, Institute of Systems Integration and Security, TUSUR, Tomsk.

14:00 – Information security challenges in digital transformation and AI-driven business processes

Vyacheslav V. Zolotarev, PhD (Eng.), Head, Department of Information Technology Security, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk.

16:00 – AI-based methods and approaches for anomaly detection

Nina I. Romancheva, PhD (Eng.), Dean, Faculty of Applied Mathematics and Computer Science, Moscow State Technical University of Civil Aviation (MSTUCA), Moscow.

28 November 2025

09:00 – Cybersecurity: from theory to practice – attack scenarios for cyber-physical systems

Elena S. Basan, PhD (Eng.), Associate Professor, Southern Federal University, Taganrog.

10:30 – Applying AI in the development of information protection tools

Elena S. Basan, PhD (Eng.), Associate Professor, Southern Federal University, Taganrog.

12:00 – Applying AI to network traffic analysis for information security tasks

Alexander S. Getman, PhD (Phys.–Math.), Senior Researcher, Ivannikov Institute for System Programming, Moscow.

Speakers

• Iskandar M. Azhmukhamedov, DSc (Eng.), Professor, Department of Information Security, Astrakhan State University, Astrakhan.

• Elena S. Basan, PhD (Eng.), Associate Professor, Southern Federal University, Taganrog.

• Alexander S. Getman, PhD (Phys.–Math.), Senior Researcher, Ivannikov Institute for System Programming.

• Maxim A. Deryabin, PhD (Eng.), Researcher, Samsung Advanced Institute of Technology (SAIT), Suwon, Republic of Korea.

• Vyacheslav V. Zolotarev, PhD (Eng.), Head, Department of Information Technology Security, Reshetnev Siberian State University of Science and Technology, Krasnoyarsk.

• Irina A. Ivanova, PhD (Eng.), Associate Professor, Head of Department "Digital Data Processing Technologies," MIREA — Russian Technological University, Moscow.

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• Evgeny Y. Kostyuchenko, PhD (Eng.), Head, Research & Engineering Center "Intelligent Systems of Trusted Interaction," TUSUR, Tomsk.

• Pavel S. Lozhnikov, DSc (Eng.), Vice-Rector for Research and Innovation, Omsk State Technical University, Omsk.

• Elena A. Maksimova, DSc (Eng.), Head, Department of Intelligent Systems of Information Security, MIREA — Russian Technological University, Moscow.

• Namita Mittal, Associate Professor, Department of Computer Science and Engineering, MNIT, Jaipur, India.

• Prakasha G. S., Christ University, Bangalore, India.

• Nina I. Romancheva, PhD (Eng.), Dean, Faculty of Applied Mathematics and Computer Science, MSTUCA, Moscow.

• Marina A. Rudenko, PhD (Eng.), Head, Center for AI & Big Data Analytics, V.I. Vernadsky Crimean Federal University, Simferopol.